

ABSTRACT OF THE INVENTION

Systems and methods are provided for speech recognition. The systems and methods are operative to evaluate a spoken word and determine one or more characteristics of a speech waveform corresponding to the spoken word. The speech waveform is converted to a digital pulse waveform based on a threshold level. One or more characteristics of the speech waveform can be analyzed utilizing the digital pulse waveform. The threshold level can be adjustable so that varying voltage amplitudes of speech waveforms can be considered. The one or more characteristics can be matched with one or more stored characteristics to determine the spoken word associated with the speech waveform between a set of selectable words having different waveform characteristics.